



SARTOMER APPLICATION BULLETIN

Ricobond® Maleinized Polybutadiene

Product Description

The Ricobond® maleinized polybutadiene family of products are used to promote adhesion to various substrates in peroxide and sulfur cured systems. When used in peroxide or sulfur cured systems these materials also will act as oils (process aids) and will crosslink into the matrix rendering them non-extractable.

Benefits/Features

- ✓ The polybutadiene backbone renders the final reaction product hydrophobic.
- ✓ The liquid nature allows for ease of mixing.
- ✓ The solubility parameter allows for plasticizing of blocked copolymers such as SBS and SIS.
- ✓ The high vinyl nature increases crosslink density.
- ✓ Improves hardness, modulus and oil swell resistance.
- ✓ Improves adhesion to polyesters, aramids, and metals when added to the compound.

Typical Uses

- ✓ Rubber (belts, hoses, molded goods)
- ✓ Plastics
- ✓ Printing Plates
- ✓ Adhesives

General Description

(not to be considered as a specification)

Appearance:	Amber liquid
Chemical Description:	Maleinized Polybutadiene
Molecular Weight(Mn):	1700 - 5600 g/mole
Viscosity:	48000 @ 25°C - 140000 @ 55°C

Handling

To insure best performance, store at room temperature or below. Avoid moist conditions as this will develop a skin on the neat material. Do not heat with band heaters as hot spots may cause the material to crosslink and auto-accelerate.

Ricobond® Maleinized Polybutadiene Standard Line of Products

Property	1031	1731	2031	1756	Units
Molecular Weight (Mn)	5000	5400	5600	2500	g/mole
Viscosity (@ 25 °C)	48000	50000*	100000**	140000**	cps
Recommended Cure System	Sulfur	Sulfur	Sulfur	Peroxide	
Maleic Anhydride	10	17	20	17	%

* at 45°C

** at 55°C

When using Ricobond® in sulfur cured system, increase the sulfur by 20% and add 3phr of TBBS.

The information in this bulletin is believed to be accurate but all recommendations are made without warranty, since the conditions of use are beyond SARTOMER Company's control. The listed properties are illustrative only, and not product specifications. SARTOMER Company disclaims any liability in connection with the use of the information, and does not warrant against infringement by reason of the use of its products in combination with other material or in any process.

Oaklands Corporate Center, 502 Thomas Jones Way, Exton, PA 19341
Telephone 610-363-4100 Toll Free 800-345-8247 Fax 610-594-0252